FX Dealing Accelerator
https://community.tibco.com/modules/fx-dealing-accelerator

Kevin Higgins
May 19, 2106

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Agenda – FX Dealing Accelerator

1. Introduction
2. FX Dealing Business Context
3. Targeted Use Case: Global Bank FX Pricing Platform
4. Scope of FX Dealing Accelerator
5. Demonstration: Dynamic Response to Market conditions
6. Questions
FX Dealing Accelerator

TIBCO® FX Dealing Accelerator

- AUD.USD: Sell 0.75, Buy 1.20
- EUR.USD: Sell 1.13, Buy 0.97
- GBP.EUR: Sell 1.25, Buy 0.84
- GBP.USD: Sell 1.44, Buy 0.08
- NZD.USD: Sell 0.71, Buy 1.03
- USD.CAD: Sell 1.29, Buy 0.95
- USD.CHF: Sell 0.96, Buy 0.81
- USD.JPY: Sell 107, Buy 14

RFQ
Execution Report

Showing 0 to 0 of 0 entries
Introducing TIBCO Accelerators

TIBCO’s leading technology...

...add fast-start accelerators...

...provides what digital businesses need now

Fast Data Platform

TIBCO® Accelerators

Digital Solutions
Proof of concept for FX dealing RFQ functionality

Received functional specification Sunday 0900

Use FX Dealing Accelerator as a platform

Deliver PoC to bank board on Thursday 0900, 4 elapsed days

Rapid time to market, also a powerful enabler for customer team, as use case is theirs
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TIBCO Accelerators: A Fast Path to Innovation

RESULTS

Baked-in best practices

Free and community-driven

Fully customizable

The most innovative TIBCO® Community use cases

Enterprise class
FX Dealing Business Context

Global decentralized market for trading currencies

Average daily turnover in excess $5 trillion

41% UK, 19% USA, 5.7% Singapore, 5.6% Japan, 4.1% Hong Kong
FX Dealing Business Context

Market is highly fragmented – No Single Exchange

Many sources of price and liquidity data

Can be a very fast moving market > 30,000 message per second

Venues supply bid and ask prices to their customers

They make the “spread” (ask – bid) on trading activity (spot trading)
Use Case: Global Bank FX Pricing Platform - Challenges

Losing market share, inaccurate rates—Losing revenue is very negative for a bank and inaccurate rates affect market reputation.

Not growing the business fast enough, not capitalizing on new business opportunities—Affects bonus and career

Problem: Currently, trader prices in FX spot are managed in a highly manual fashion, with very little flexibility and known latency issues
Not possible to differentiate trader price streams to different customer bases, according to risk profile
Support 24x5 executable streaming prices in spot FX, moving beyond the current RFQ-only model
Use Case: FX Dealing Accelerator

Out of the box market data connectivity

Customizable spread calculation

Market data distribution

Subscription management

Trade execution handling
FX Dealing Accelerator – What is it?

• Reusable set of software components
• Provides a fast start for FX dealing
• Based on the TIBCO Fast Data Platform

• Available in TIBCO StreamBase® 7.6
• Provided as source code (TIBCO StreamBase EventFlow™ and TIBCO® Live Datamart tables)
• Sample HTML5 UI

• Fully customizable
• Intended as an extensible platform
• Reduce development time
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## Pre-built Connectivity

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The FX Dealing Accelerator connects to over 25 FX market data providers and FX execution venues.

TIBCO Live Datamart source schemas are provided that illustrate the best practices of setting up a live data mart data model for use by a trader dealing interface.

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Embed Algorithms to Spot Trade Opportunities

“When USDJPY trade volume is above **2 million** and **10 executions** within **last 20 mins** time window, SEND market order”
The FX Accelerator components implement the elements of an entire FX Dealing system. Major groups of code are:

**Accelerator Components**
Adapters, handlers, sample FX Order Book, sample FX Risk management, etc.

**FX Dealing UI**
FX Dealing user interface – JavaScript and HTML5 code, for use with TIBCO Live Datamart

**Community Components**
Community-contributed source components that provide complementary technology elements for FX Dealing. For example, VWAP sample, Binomial model, etc.

### Components

| TIBCO Binary Product (Binary supported as product) |
| TIBCO Source Code Product (Fast-Start code supported as product) |
| "Open Source" Community (Packaged and released to TIBCO Component Exchange) |
| Accelerator Demonstration (Packaged, but not supported) |

### FX Dealing UI

- Spread Calculation
- Subscription Management
- FX Data Handler
- FX Order Book
- Price Calculation
- FX Execution Handler
- FX Position Keeping
- FX Data Handler
- FX P&L
- Price Distribution
- Adapter

### Community Components

- VWAP Algorithm
- R/TEER / Matlab / integration
- Binomial Model
- CUDA Sample
- FX Pre-Trade Algo
- FX Risk Management

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Demo

FX Dealing Accelerator
Takeaways – FX Dealing Accelerator

1. Out of the box market data connectivity

2. Customizable spread calculation, subscription management

3. Fast time to market with trading strategies

4. Flexible platform for integration

5. Available now on TIBCO Community: https://community.tibco.com/modules/fx-dealing-accelerator
FX Dealing Accelerator

The FX Dealing Accelerator offers the ability to create an FX trading/pricing application that is both flexible and fast to deploy. The FX Accelerator provides a framework that connects to Liquidity Providers and manages the lifecycle of the connection freeing the developer to concentrate on adding business specific logic and rules that add value to their organization.
Accelerators on the TIBCO Community Exchange

https://community.tibco.com/wiki/accelerators

https://community.tibco.com/modules/connected-vehicles-accelerator
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